

Led Profile Spot light

200W 2in1 cool +warm white (amber)

HS-PS20021



Use Manual

=====PROFESSIONAL LIGHTING EQUIPMENT=====

Instruction

Hosen lighting Technology Limited

OVERVIEW

Thank you for using our product, this unit is designed for indoor using, it's widely used for stage, building, disco, etc. as high power led effects lighting, this unit can be operated as a single unit or multiple units for large applications. Direct input of DMX512 signal to unit to allow it controlled by any DMX controller, powerful internal programs and friendly and convenient operation interface allows customers to program freely to any different lighting project requirements for installation or showing.

This high power par can has gotten the nice sculpt, efficient, save electricity and durable.

This product complies with the following standards:

EN61000-3-2:2006+A2:2009

EN60598-1:2008+A11:2009

Technical Parameter:

- Input voltage:AC110V-240V 50-60Hz
- Power consumption : 260W
- Lamp:Cool+Warm white 200W super brightness Module LED
- Control Mode:DMX512,Master/Slave,Sound-active,Auto run
- DMX channel: 2/5CH
- Beam Angel: 19°,26°,36°
- Housing: Die-casting Aluminum
- Color temperature :2000k~6500k
- Fan Noise:12.1~20dB
- Fan speed:900-2,000RPM±10%
- Fan life:30000 hours
- Refresh rate:4000Hz,flick free for TV and Studio
- IP Grade: IP20
- N.W.:6 kgs
- G.W.: 8kgs
- Dimensions : 660x285x295mm

1. Product Introduction

1.1. Product Feature

- **4 kinds of running mode**
 - External control mode (Slave mode)
 - ◆ DMX 512 controller control(2 kinds channel modes)
 - ◆ Master/slave model control (auto match the signal from controller and the Master light, no need to set by menu)
 - **Auto run mode (Master mode)**
 - ◆ Different kind of Gradual change& Random change
 - ◆ Different kind of Strobe: speed change strobe (slow to fast)、mixing strobe(Strobe +basic color, Strobe +Gradual change).....
 - **static mode (Master mode)**
 - ◆ It can fix any color without the controller ,also work this color with strobe
 - **Sound mode (Master mode)**
 - ◆ Included 2 kinds of commonly used sound mode
- **“Software cutting”**
 - The light would be turn off when the dimmer channel is "0" (procedure would keep working)
 - The difference with “BLACKOUT” key(controller keys) & "Software cutting" : only work this light , and do not clear up the controller data .
- **No-liner dimmer &liner dimmer**
 - The Effect get high praise from the professional technologist.
- **Screen Protect**
 - It will enter blank screen without any operate on the keyboard in 30 seconds . Press any keys then it can quit screen protection.
- **Temperature Protection**
 - It can be set to temperature protection mode
- **Speed of the Fan**
 - The fan will start to work when the working temperature reach 40 degree, and the speed will be changed according to the change of temperature.
- **Can support reverse display**

1.2. Multi-light working in the same time

When using controller to control multi lights to work in strobe, the controller just send the channel data . The strobe effect will be depend on each light itself . And please take attention for the follow situation:

1. There will be many situations make the lights are not synchronization in the beginning. (For example: the different time of opening the light , or different time of them connect to the controller) .In this case, you can change value of the controller(for example push 20 to 0, and back to 20), then it can be synchronization.
2. Due to crystal frequency of different lights are not the same exactly, so it may not be synchronization after long time.
3. If need to keep synchronization for long time, there are two ways to do so:
 - A. Using the controller to edit program make the strobe, auto run effect,then they must be synchronization.
 - B. Using the Maser/Slave model

2. Operation

2.1. Key-operation

A.00 | (1~512)

d.00 | (1~512)

A.t.0 | (1~10)

→ **SP.10** (1~20)

S.d.1 (1~2)

StAt → **r.255** (0~255)

.....

→ **St.00** (0~20)

EOP → **0**

→ **E.080** (40~120)

d,SP

r.ESE

Menu :

The first list is the main menu (press MENU to exchange), the second list is vice menu (press ENTER to get in or exchange)

If the menu include the decimal point, that's the data, and can be set by the Key of Up/Down.

Key operation :

Key of “MENU” (Press it and can save the data)

If it's the main menu, it will exchange to next main menu.

If it's the vice menu, it will back to main menu.

Key of “ENTER” (Press it and can save the data)

If it's the main menu and it have vice menu, it will enter the vice menu.

If it's the vice menu, it will exchange to the next vice menu.

Key of “UP/DOWN”

It's no function if the menu not include the decimal point.

If the menu include the decimal point, it can set the data after the decimal point. And it need press “ENTER” to save the data.

2.2. Menu

| Menu | | State | Operation | | Remark |
|----------------|-----------------------|--|-------------|--------------------------------------|--|
| Main menu | Vice menu | | | | |
| A.00 1 | No menu | A: advance | UP/DOW N | adjust ID address | disconnect the controller and connect the master light, then it will follow the master light. It will flicker when no signal. |
| | | External control mode (standard channel model) | ENTER | Save ID address | |
| B.00 1 | No vice menu | d: dmx | UP/DOW N | Adjust ID address | |
| | | External control mode (basic channel model) | ENTER | Save ID address | |
| A.t.0 1 | One vice menu | At: auto | UP/DOW N | choose the program | |
| | | Aoto run model | ENTER | enter the vice menu | |
| | SP. 10 | SP: speed | UP/DOW N | adjust speed | |
| | | choose the auto run model | ENTER | save the data | |
| Sod. 1 | No menu | Sod: sound | UP/DOW N | change to sound model | |
| | | sound model | ENTER | save data | |
| StAt | With multi menus | StAt: static | ENTER | enter vice menu | |
| | | static mdel | | | |
| | c.255 | r、G、b、W..... | UP/DOW N | change the color data | |
| | | set the color | ENTER | save the data change to vice menu | |
| | St.00 | St: strobe | UP/DOW N | change the strobe data | |
| | | the strobe and its speed | ENTER | save and exchange | |
| | have 2 vice menus | tEMp: temperature | ENTER | enter the vice menu | |
| | | temperature control function | | | |
| | T | current temperature | ENTER | change to vice | |

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| | | | | | |
|--|--------------|--------------------------------|-------------|--|---|
| | | | | menu | |
| | | | | | |
| | E.080 | t: top | UP/DOW N | Change the temperature protection data | |
| | d,5P | set the temperature protect | ENTER | save and exchange | |
| | | diSP: display | ENTER | reverse display | |
| | rESE | set to show reverse display | | | The password is “UP DONW UP DOWN” |
| | | reSt: reset | ENTER | enter the interface of key | |
| | | return Initial State | | | |

2.3. Channel data

2.3.1. Standard channel model

| channel | data | function | mark |
|---------|---------|---|---|
| 1 | 0~255 | dimmer | |
| 2 | 0~255 | color1 | |
| 3 | 0~255 | color 2 | |
| 4 | 0~10 | no strobe | this channel control the speed when running the build-in program |
| | 11~255 | the speed of strobe (255 is the fastest) | |
| 5 | 0~20 | speed of dimmer 4 (the slowest and softest) | |
| | 21~40 | speed of dimmer 3 | |
| | 41~60 | speed of dimmer 2 | |
| | 61~80 | speed of dimmer 1 | |
| | 81~99 | speed of dimmer off (fastest and no any delay) | |
| | 100~109 | inner program 1 | |
| | | each 10 data is a program | |
| | 190~199 | inner program 10 | |
| | 200~240 | change color by sound control | |
| | 241~255 | strobe by sound control | |
| | | | |

2.3.2. Basic channel model

| channel | data | function |
|---------|-------|----------|
| 1 | 0~255 | color 1 |
| 2 | 0~255 | color 2 |

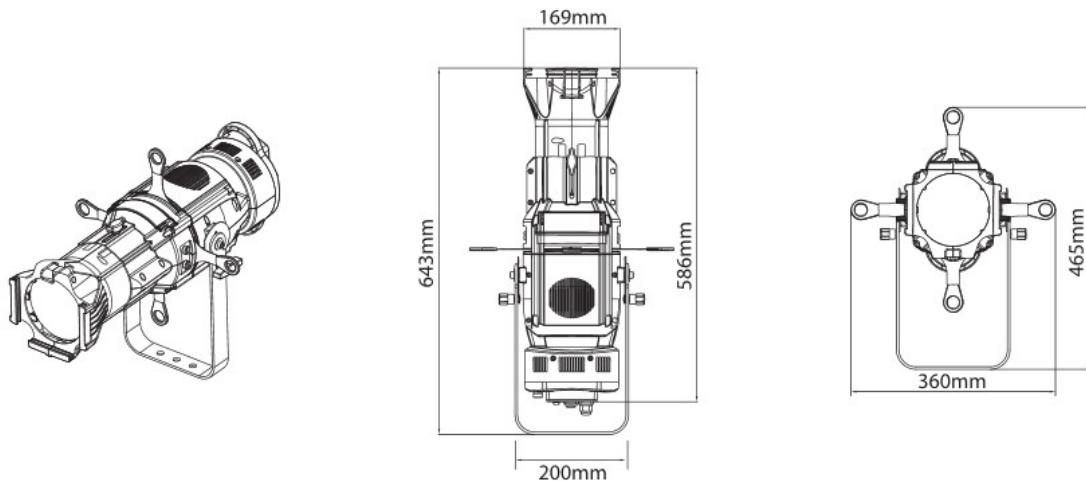
Description of the Device

1. Profile

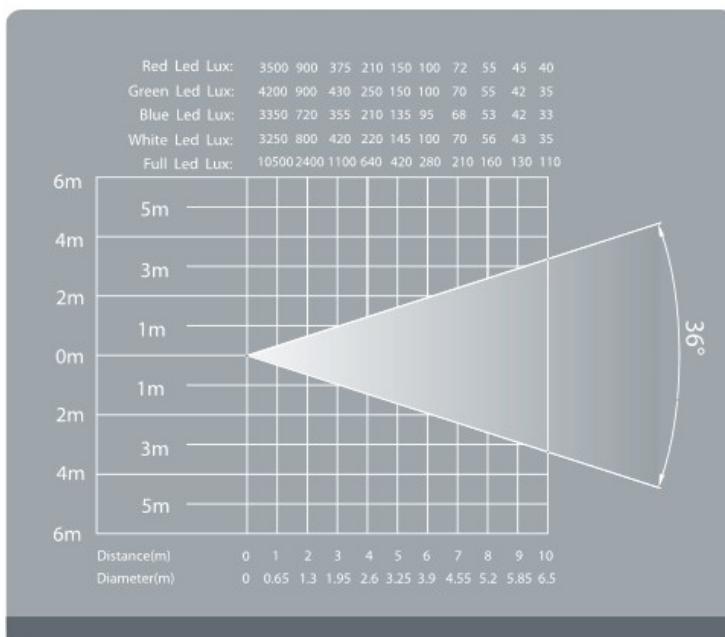
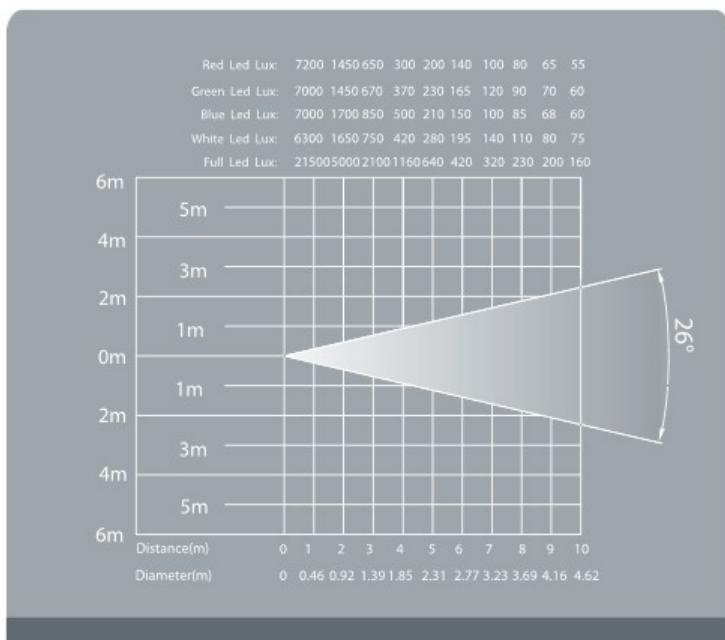
With the idea of energy saving and environment projection, the device use lower power loss and extremely high efficiency led . The device housing cover is made of used the new high strength heat resistance engineering plastics , with the IEC standard . The device is suitable in the large-scale theatrical performance , the performance hall, the bar night club and so on .

The product conforms to the international standard DMS512 agreement completely , the device can be controlled in single , and also be controller in many units .

2. Overview



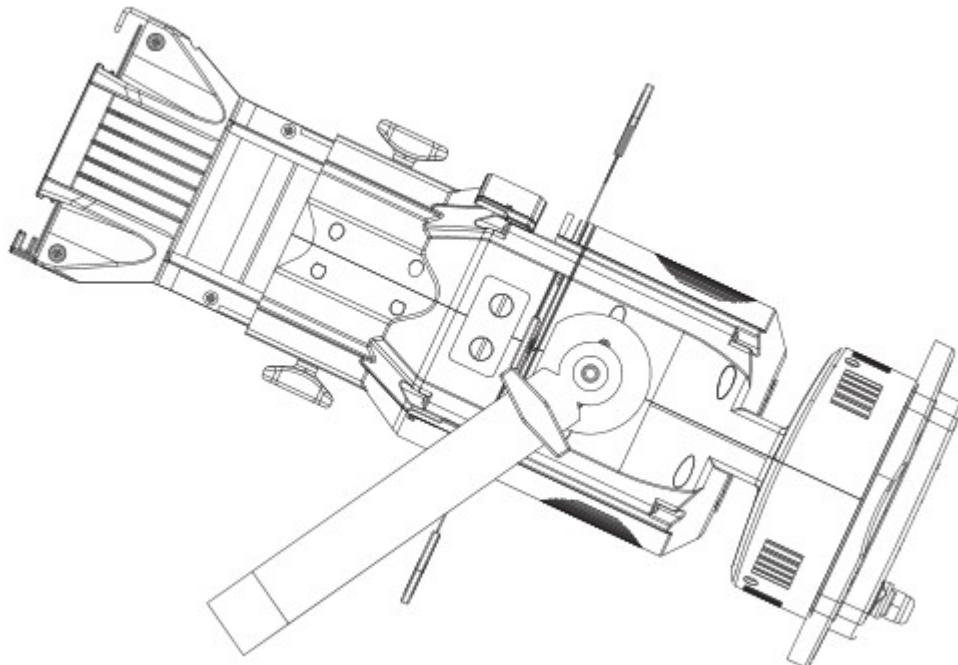
3. Photographic Chart



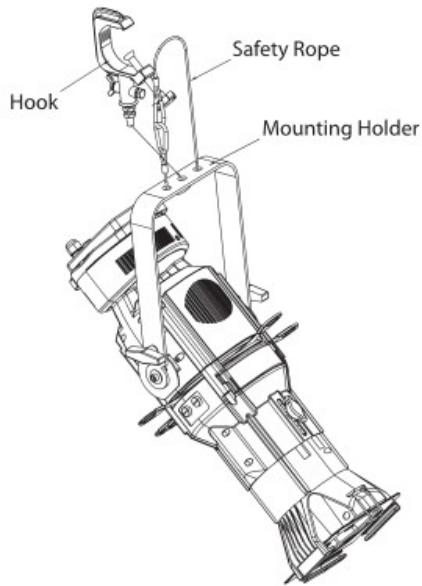
Installation

1. Installation

- * When installation , keep the device far away the heat sensitive objects and explosives sensitive objects, leave at least 50CM of free space around the device .
- * When the device put on horizontal place , the device must be placed directly on the place , and device must be secures with a mounting holder .



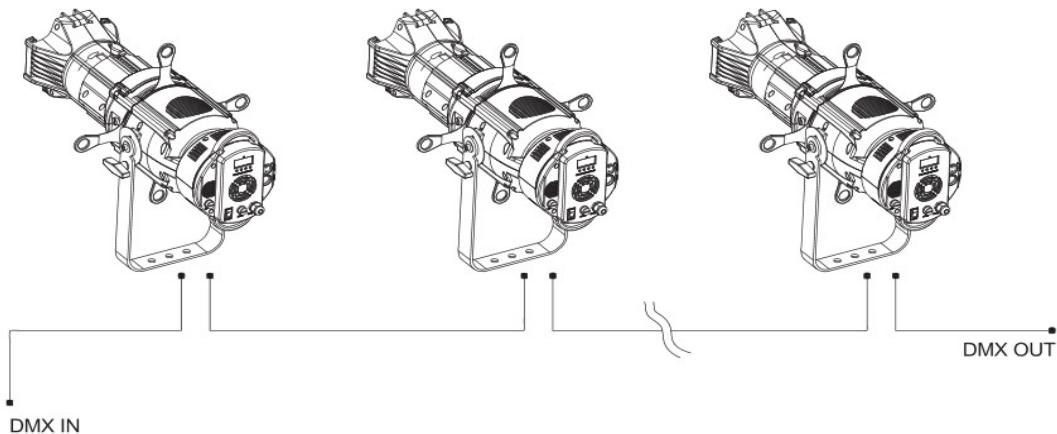
- * When rigging the device on the truss and the head face to the floor, the screw one clamp each via a M12 screw and nut onto the mounting holder . Insert the quick-lock fasteners of the first mounting holder into the respective holder on the bottom of the device . Tighten the quick-lock fasteners fully clockwise . Install the second mounting holder . And the safety rope must be used at same time .



* Please use qualified safety-rope, which can hold at least 10 times the weight of the fixture. You must only use safety-ropes with quick links with screw cap . Pull the safety-rope trough the hole on the bottom of the base and over the trussing system etc. Insert the end in the quick link and tighten the fixation screw . A safety rope which already hold the strain of the crash or which is defective must not be used again.

2. DMX512 Connection

* Please use xlr-xlr wires connect the DMX output of the controller with the DMX input of the first device , and connect the DMX output of the first device with the DMX input of the second device , always connect one output with the input of the next device until all device are connected.



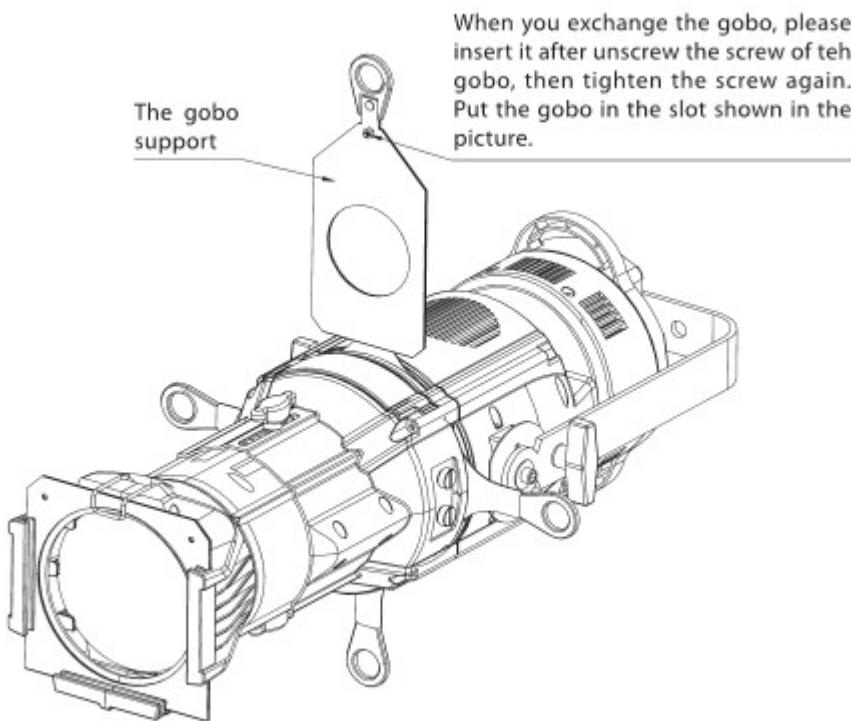
* Please use qualified xlr-xlr dmx cables.

3. Connection with mains

- * The person involved with the power connection must be qualified . And has the electrical engineering certificate.
- * Connect the device to the mains with the power plug .
- * The earth has to be connected .
- * Power consumption 260w , input power supply AC 100V-240v , 50/60Hz

4. The use of gobo frame

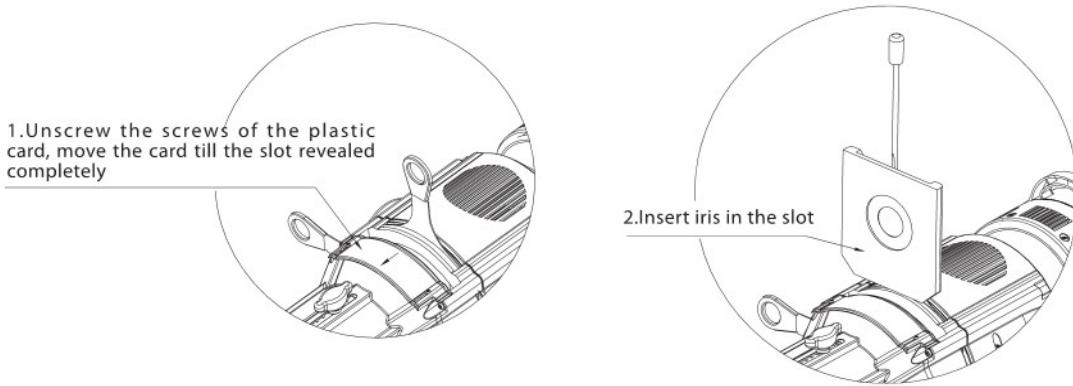
- * Take out the gobo frame, loose the screws , insert the gobos and lock the screws again .
- * Insert the gobo in the slot .



5. Use iris

Iris is not included when the projector leave factory , user can purchase the iris if needed.

Loose the screw and insert the iris.



6. Replacing fuse

* Before replace the fuse , unplug mains lead.,

* Procedure :

Step 1 : Unscrew the fuse-holder on the rearpanel with a fitting screwdriver from the housing (anti-clockwise).

Step 2 : Remove the old fuse from the fuse-holder .

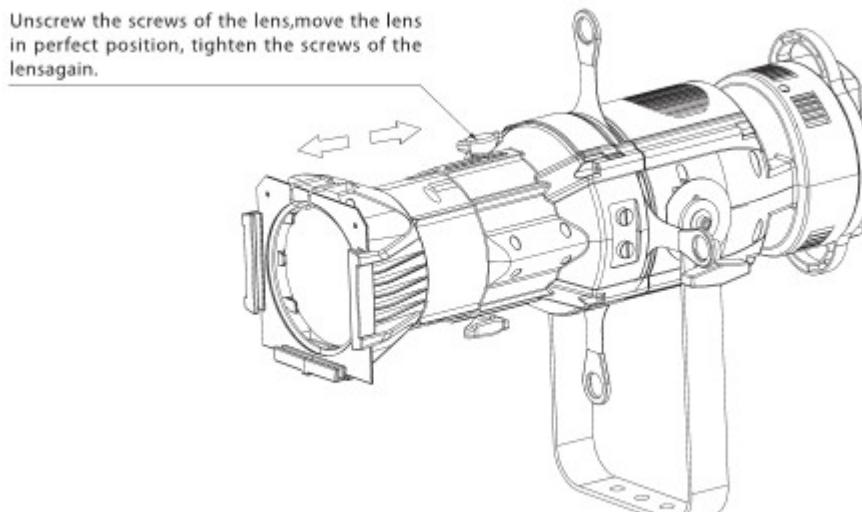
Step 3 : Install the new fuse in the fuse-holder

Step 4 : Replace the fuse-holder in the housing and fix it .

7. Focus

* The objective lens cylinder is usually shrinked before leaving factory , after connect the projector to the mains , user may loose the screws and pull out the lens cylinder , till the white light output circular is clearly presented , locking tightly the two screws again.

* When the projection distance is changed , user can follow previous operation steps , and focus the projector.



SAFETY INSTRUCTIONS

When use this product please pay close attention to the following items.

- 1) The product must be installed by a qualified professional
- 2) The product left the place of manufacture in perfect condition. In order to maintain this condition and for safe operation, the user must always follow the instructions and safety warning described in this user manual.
- 3) Manufacture will not with responsibility for those operation not according to this instruction.

Operation attentions

- 1) Do not connect power cable of other electric products with this unit.
- 2) Do not connect DMX512 signal cable of other electric products with this unit.
- 3) Check the fixture and power cord time to time, make sure the power cord is not crimped or damaged by sharp edges.
- 4) Do not shake the fixture. Avoid brute force when installing or operating, do not permit operation by person not qualified for operating the device.
- 5) Always make sure that the products are connected the proper voltage, and that the line voltage of the products connecting to is not higher than that stated on the decal or rear panel of the fixture.
- 6) During long period of non-use, disconnect the unit's main power
- 7) Do not attempt to operate this unit if the power has been frayed or broken. If the exterior cord of the fixture is damaged, it must be replaced by manufactory, agent or qualified technician.
- 8) There are no serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself.
- 9) Maximum ambient temperature (Ta) is 35°C. Do not operate unit at temperature higher than this
- 10) The surface temperature of the light can reach to 65°C, cool down at least 15 minutes before the light operated.
- 11) Avoid looking into the source directly(expecially those who suffer from epileptic fits)
- 12) Do not install the fixture on combustible surface. Away mount this unit in safe and stable mater.

DISCLAIMER

1. The device is with one year warranty . The warranty period appear non-artificial quality problem, this company is responsible for free maintenance
2. User violate operation caused the machine failure, this is user responsibility.
3. If due to the wrong operation or intense impact caused product destroy even safety accidents, the manufacturer does not undertake any responsibility
4. Prohibit replaced product components by any person, therefore caused any consequences will be whose responsible